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URGES COOPERATIVE AGREEMENTS BETWEEN PLANTS;  
RESEARCH INSTITUTE ACTIVE

MORE INTER-PLANT COOPERATION FAVORED -- Leningradskaya Pravda, No 272, 19 Nov 49

Among the new products which the Krasnyy Vyborzhets Plant is now turning out are heavy hydraulic presses for making large-diameter pipe, heavy milling machines, and six-roller rolling mills.

Finding and utilizing nonferrous-metal and alloy substitutes for scarce materials is receiving much attention. In a number of items made by the plant, stannous bronze bearings are replaced with zinc alloy bearings. Experiments aimed at eliminating the need for two other short-supply materials are now under way.

The Krasnyy Vyborzhets Plant is in favor of considerably increasing industrial cooperation among plants in Leningrad. There is always some way in which a plant can meet its orders through a cooperative agreement without harm to its basic commitments. Krasnyy Vyborzhets has worked out agreements with the Machine-Tool Building Plant imeni Sverdlov, the Hoist and Transport Equipment Plant imeni Kirov, the Lenstankolit Plant, and others. These agreements should be further developed.

LENINGRAD PLANTS OBSTRUCT SHIPMENTS TO URALMASH -- Trud, No 277, 24 Nov 49

Several Leningrad plants are obstructing production at the Sverdlovsk Uralmash Plant by failing to ship parts and materials contracted for. The Kirov Plant is a typical offender. An incomplete tube mill has been lying in the assembly shop at Uralmash since August 1949, waiting for a roller from the Kirov Plant which was due by March of that year. The half-finished mill, a 134-ton Model 460, is cluttering up the shop and impeding other work. A petroleum-well crane is in the same state due to a missing balance beam. A slewing drum and 28 rollers are already half a year late from the Kirov Plant.

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The Krasnyy Metallist Plant is delaying shipment of reducers, paired bearings, and rollers. These usually arrive at the last minute, forcing the assembly shop to work on a shock-brigade basis. Krasnyy Metallist also supplies Uralmash with lubricating equipment and fittings. Uralmash has been able to fill only four of 26 orders involving such equipment. Other orders Uralmash should be filling are being delayed for lack of pump stands, dual-pump units, filters, valves, and other small parts which Krasnyy Metallist has failed to deliver.

The Nevskiy Plant has failed to send castings. The Leningrad Tire Plant is not supplying pneumatic coupling tubes.

How can Uralmash meet its obligations under such conditions of supply? -- Letter from four workers

INSTITUTE DEVELOPS AUTOMATIC MACHINE -- Vechernyaya Moskva, No 2, 3 Jan 50

Automatic electric welding, which has almost entirely replaced riveting, was developed largely by the Central Scientific Research Institute of Technology and Machine Building, Ministry of Heavy Machine Building. The institute put out the first automatic electric welder in 1941.

The welders are now called tractors, because they move automatically along the seams, welding as they go. The flux is sifted by the machine in an even path ahead of the weld. The electric arc is not visible to the operator, obviating the use of shield or helmet.

The lightest of the tractors is the UT-1250, weighing only 44 kilograms; other models weigh 130, 135, and 75 kilograms.

A modification of the tractor, used in welding seams inside boilers, is called a welding head (golovka). One such welder developed by the institute can weld boilers with walls over 60 millimeters thick.

SCIENTISTS WORK WITH DIRECTORS TO SOLVE PRODUCTION PROBLEMS -- Leningradskaya Pravda, No 16, 19 Jan 50

The Leningrad Engineering and Economic Institute imeni V. M. Molotov is engaged in a joint effort with the Leningrad Machine-Building Plant imeni Vtoroy Pyatiletki, the Tire Plant and the Third GES to advance technology and increase production. For this purpose a number of sections which include plant directors, engineers, stakhanovites, and designers have been created. Regular production conferences have been held, in which as many as 500 persons have participated.

As a result, the Plant imeni Vtoroy Pyatiletki has been turned into a smoothly running enterprise, where last-minute speed-ups have been eliminated. The quality of gray iron castings has been raised and the technique of producing modified pig iron has been mastered.

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